ET-MD11

Main Circuit And Support / Power And Indicators

Main Circuit And Support

U1
DRV8874PWPR 37V 6A H-bridge, current sense + regulation

CPH	CPH	OUT1	OUT1
CPL	CPL	OUT2	OUT2
EN/IN1	EN/IN1	PGND	GND
GND	EP	PH/IN2	PH/IN2
GND	GND	PMODE	PMODE
IMODE	IMODE	VCP	VCP
IPROPI	IPROPI	VM	VM
FAULT	nFAULT	VREF	VREF
SLEEP	nSLEEP		

C3 — 100nF 50V X7R
VM — GND

C4 — 22nF 50V X7R
CPH — CPL

C5 — 100nF 50V X7R
VCP — VM

Main Circuit And Support

C6 — 100nF 50V X7R
VCC — GND

R1 — 100k ohm 1%
SLEEP — GND

R2 — 10k ohm 1%
VCC — FAULT

R3 — 2.2k ohm 1%
IPROPI — GND

Main Circuit And Support

R4 — 10k ohm 1%
VCC — VREF

R5 — 10k ohm 1%
VREF — GND

R6 — 100k ohm 1%
PMODE — GND

R7 — 22k ohm 1%
VM — D1_A

Power And Indicators

JP1
Solder jumper

1	PMODE
2	VCC

C1 — 100µF 35V electrolytic
VM — GND

C2 — 10µF 50V X5R
VM — GND

D1 — Red LED
D1_A — GND

DESIGN NOTES

Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

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DRAWN BY: ElectroTrical	CHECKED BY: -	DATE: 2026-11-12	REVISION: A
DOCUMENT NUMBER: ET-MD11-SCH-001		FORMAT: A3 / LANDSCAPE	SHEET: 1 of 2

Connectors

J1
Screw terminal 2P 5.0mm 17A (THT)

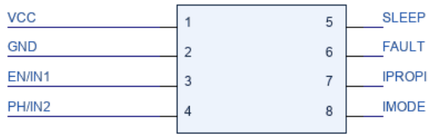


J2
Screw terminal 2P 5.0mm 17A (THT)



J3
DNP

2.54mm male pin header (ship loose)



DESIGN NOTES

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